

M.E DEGREE EXAMINATIONS: JANUARY 2011

First Semester

COMMUNICATION SYSTEMS

COM519: Internetworking Multimedia

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:

PART A (10 x 2 = 20 Marks)

1. Explain about differential encoding.
2. What is a filter?
3. What are the QoS parameters associated with IP?
4. Differentiate between voice over IP and video over IP.
5. How is traffic shaping achieved in broadband services?
6. Compare Packet switching and circuit switching networks.
7. Mention any two features by which IPV4 and IPV6 differ.
8. List the functionalities of MPEG-7.
9. How the packet voice is generated in the networks?
10. How is synchronization achieved in streaming video across internet?

PART B (5 x 16 = 80 Marks)

11. a) (i) Explain the multimedia characteristics. (8)
(ii) List the issues to be addressed in the design of network for multimedia communication (8)
(OR)
b) (i) Explain in detail any one technique for compression of video data. (8)
(ii) Explain Huffman coding and adaptive Huffman coding. (8)
12. a) Explain the broadband services
(OR)
b) (i) Bring out the significance of resource reservation. (8)
(ii) Explain any two algorithms for scheduling. (8)
13. a) (i) Discuss RTP in detail and establish its superiority over TCP. (8)
(ii) Explain MIME concept in detail. (8)

(OR)

b)(i) Explain any one shared application of RTP. (8)

(ii) What is meant by light weight protocols? (8)

14. a) Explain MPEG-21 Multimedia Framework Architecture.

(OR)

b) (i) Explain the different Audio visual standards. (8)

(ii) Explain guaranteed QOS LAN systems. (8)

15. a) Explain Layered video coding and error resilient video coding techniques.

(OR)

b) Explain in detail the transmission of video over IP and ATM networks.
